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NPIC/R-294/63 November 1963

PHOTOGRAPHIC INTERPRETATION REPORT

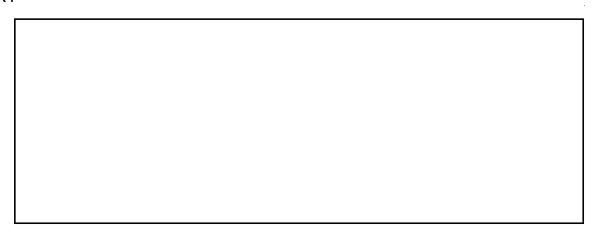
HEN ROOST ANTENNAS ANTIMISSILE TEST CENTER SARY SHAGAN, USSR, JULY 1963

DECLASS REVIEW by NIMA/DOD

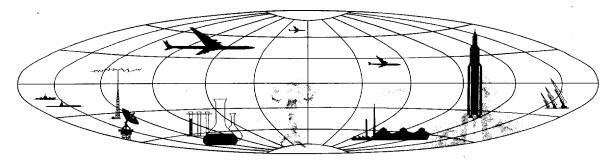




25X1



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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GROUP 1 Excluded from automatic downgrading and declassification PHOTOGRAPHIC INTERPRETATION REPORT

HEN ROOST ANTENNAS ANTIMISSILE TEST CENTER SARY SHAGAN, USSR, JULY 1963

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NPIC/R-294/63

PREFACE

partial coverage provided by

This report includes a description of HEN ROOST Antennas North and South at the Antimissile Test Center, Sary Shagan, USSR, (Figures 1 and 2) with particular emphasis on changes apparent from recent photography and is prepared in response to SRI 282 T-1-63 and in partial response to AF-4-63 and OSI/R-135-63. It is based on available photography of the HEN ROOST antennas ranging from earliest 25X1 25X1D Relto coverage of 25X1 coverage of 25X1D coverage has been received 25X1 atively frequent comparative and, although of small scale, is of fair to good 25X1D since quality. Both facilities are covered in their entirety, as compared with

25X1D

- iii -

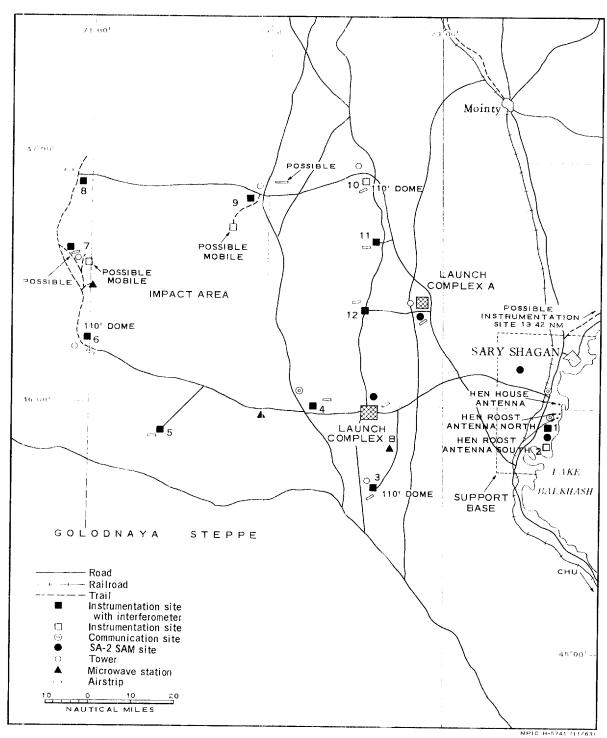


FIGURE 1. ANTIMISSILE TEST CENTER, SARY SHAGAN, USSR.

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NPIC/R-294/63

_	SUMMARY 25X1D	SARY
25X1 - 25X1B	Details of HEN ROOST Antenna North from almost complete coverage of revealed the facility to be virtually complete; comparable details were not available on HEN ROOST Antenna South, since that site was approximately 90 percent cloud covered and under construction at the time. Certain structural details still are lacking on HEN ROOST Antenna	PEN HOUSE LAKE BALKHASH
-	such a screen does exist, it would appear to differ from that of HEN ROOST Antenna North. No significant change was noted in facilities dis-	
25X1D 25X1 ₂₅ X1D 25X1D	cernible at HEN ROOST Antenna South as judged from complete coverage of two small structures were constructed in the support area north of the possible reflector screen. Three small square structures appeared	
_25X1D	just east of and paralleling the possible reflector screen between The immediate support area just to the east remained	
25X1D - 25X1D	unchanged except for the dismantling of three buildings sometime between	P. MENROST
25X1D 25X1D	The reflector screen, clutter screen, and control building at HEN ROOST Antenna North do not appear to have changed from	Eure de la companya d
25X1D 25X1D	photography. A number of changes are apparent, however, in the smaller operational and support buildings at the site. From two small support buildings were dis-	LAKE HEN ROOST BALKHASH '1
	mantled and seven small buildings or objects (including three possible) were constructed. Ad- Ditional activity was noted in when several sites east of the reflector screen	HOUSING AND
_	were cleared of vegetation and two or possibly three small unidentified structures and one	FIGURE 2. HEN HOUSE AND HEN ROOST ANTENNAS, 25X1D

25X1D

NP.IC/R-294/63

25X1D

25X1D 25X1 building (approximately 160 feet long) were erected. In _____ a long ground scar appeared close to the west side of the screen and paralleling it. This scar was not distinguishable in _____ Analysis of various representative _____ missions giving complete coverage of the HEN ROOST antennas and surrounding areas and providing better orbital data than previously available indicates the azimuth of the HEN ROOST

25X1D

Antenna North to be more accurately placed at

The only changes noted in the main support and housing area for the HEN ROOST antennas occurred between when a motor pool and an unidentified ground pattern appeared.

HEN ROOST ANTENNA NORTH (Figures 3, 4, 5, and 6)

Location

This antenna $(45-56-05N\ 73-38-20E)$ is situated on the west shore of Lake Balkhash, approximately 10 nautical miles (nm) south

of the town of Sary Shagan. The HEN HOUSE antenna lies 3.2 nm to the north-northeast and the primary Sary Shagan airfield 7.5 nm to the northwest.

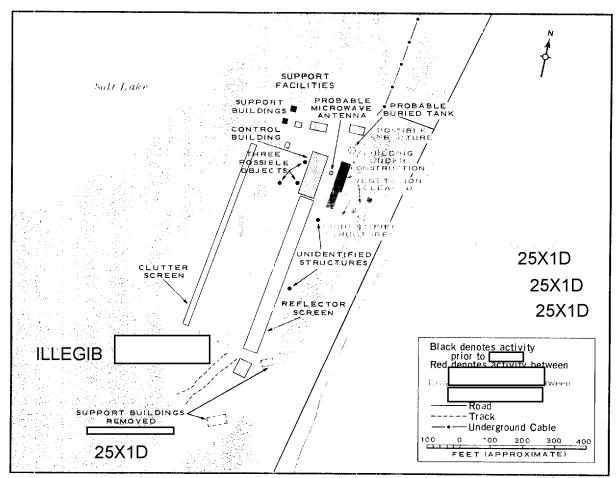


FIGURE 3. HEN ROOST ANTENNA NORTH, WITH CURRENT CHANGES NOTED.

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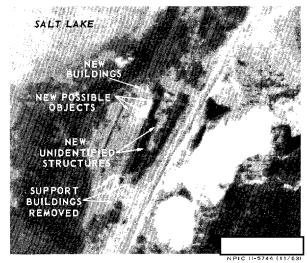


FIGURE 4. HEN ROOST ANTENNA NORTH. Changes indicated from 25X1D

Access

25X1D

The facility is served by a road spur off the main road extending south from the main section of the support base along the west shore of Lake Balkhash. Trackage indicates access from the rail offloading area at the support base directly across the natural terrain to this facility. Direct rail service is not present.

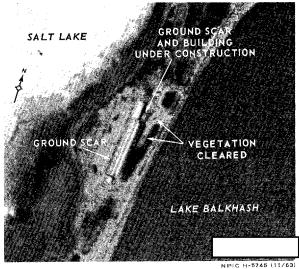


FIGURE 5. HEN ROOST ANTENNA NORTH. Changes indicated

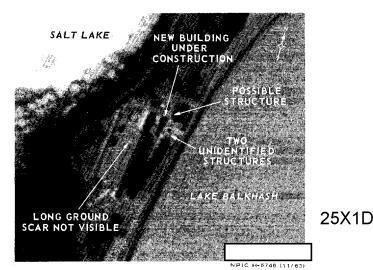


FIGURE 6. HEN ROOST ANTENNA NORTH. Changes indicated from

Reflector Screen

No apparent change is observed in the reflector screen since ______ photography of ______ The screen is approximately 510 feet long and 65 feet in chord (vertical) and contains 13 main vertical ribs. A line constructed perpendicular to it is oriented at _____ The feed reflector appears to be discernible in front of and parallel to the fixed reflector screen. Additional structural details obtained primarily from analysis of shadows on ______ photography are not discernible on ______ photography.

Clutter Screen

No change is observed in the ground clutter screen since ______ This screen parallels the reflector screen and is approximately 280 feet to the west. It is approximately 620 feet long and _____ high. The screen extends the full length of the reflector screen and approximately 110 feet beyond to the north. Four small patches of apparent vegetation just east of the clutter screen appear on _____ essentially as they did in _____ The

25X1D

25X1D

25X1D

25X1D

25X1D

25X1D

25X1D

This antenna (45-55-20N 73-38-05E) is situated on the west shore of Lake Balkhash, approximately 3,080 feet south of HEN ROOST Antenna North.

Access

Location

25X1D

25X1D

25X1D

25X1D

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It is served by a road spur from the coastal road extending south from the main section of the

Reflector Screen

ims facility was o	bserved	i under d	onstruc-
tion on largely cloud-c	overed		photog-
raphy of	On cur	rrent sm	all-scale
photography	the ex	kistence	of a re-

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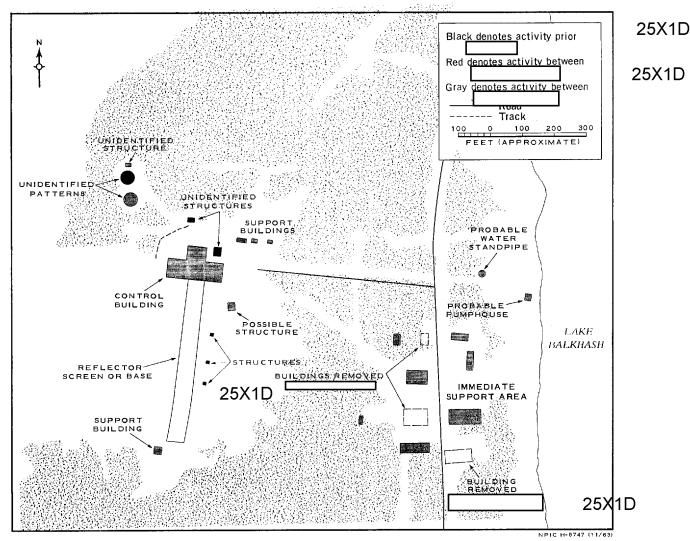


FIGURE 7. HEN ROOST ANTENNA SOUTH, WITH CURRENT CHANGES NOTED.

flector screen cannot be confirmed or denied.

screen or the base for the screen is approximately 510 feet long and is oriented at approximately There appears to be a slight curvature at the south end of the concrete base structure. Immediately adjacent to the south is a small support building. Three small square

25X1B

immediately east of and paralleling the screen. Ground clearings were observed on photography west of the reflector screen approximately 1,200 feet long and east of the screen approximately 620 feet long. The maximum width of the clearings to the east and west approximates 800 feet, a figure slightly in excess of the combined widths of the possible reflector screen and the control building.

25X1D

25X1D 25X1D

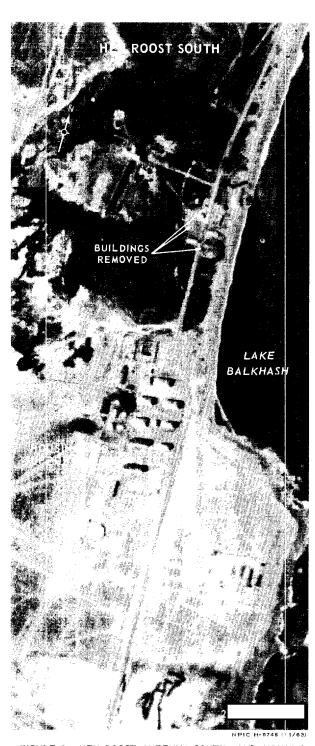


FIGURE 8. HEN ROOST ANTENNA SOUTH, AND HOUSING AND SUPPORT AREA. Changes indicated from



SUPPORT AREA. Changes indicated from

25X1D 25X1D

25X1D₆ _

25X1D

25X1D

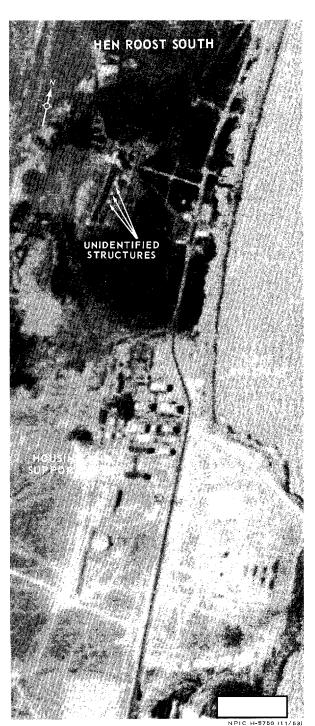


FIGURE 10. HEN ROOST ANTENNA SOUTH, AND HOUSING AND SUPPORT AREA. Changes indicated from

Clutter Screen

None present.

Control Building

25X1D

Immediately adjacent to the north end of the reflector screen is a T-shaped control building. The major component of the building is perpendicular to the possible reflector screen and is approximately 125 by 40 feet; the secondary component parallels the screen and is approximately 65 by 50 feet. Both components are an estimated 40 feet high. three small support buildings and one possible unidentified structure were observed generally east of the control 25X1D building. These may have been present in Two circular ground patterns, 25X1D each approximately 70 feet in diameter and connected to the control building by a ground scar, are situated 200 feet to the northwest of the control building. The center of the southern circle is dark in tone and has not changed materially 25X1D when first observed. For since 25X1D the first time the center of the northern pattern appears dark in tone on photography of 25X1D A small structure remains along the north edge of the northern pattern. Two additional small structures, one of which has a short ground scar extending to it, are visible on photography of north of the control building. 25X1D

Immediate Support Area

Astride the main coastal road approximately 1,200 feet east of the possible reflector screen are approximately seven small buildings of various sizes, a probable pumphouse and a probable water standpipe. Three buildings appear to have been removed here between

appears to have taken place from at least

25X1D

25X1D 25X1D

25X1D - 7 -

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25X1

25X1D

25X1D

25X1D

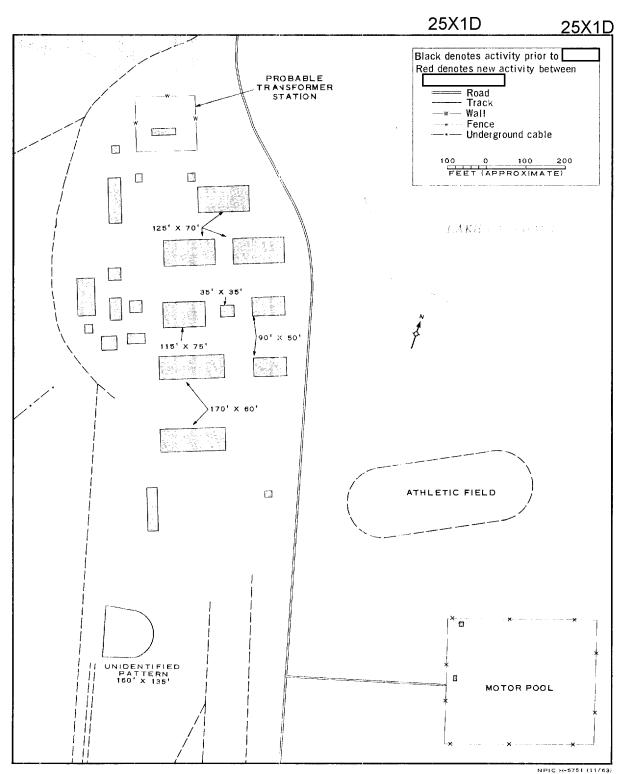


FIGURE 11. HEN ROOST HOUSING AND SUPPORT AREA, WITH CHANGES NOTED.

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	HOUSING AND SUPPORT AREA FOR HEN ROOST ANTENNAS NORTH AND SOUTH (Figures 8, 9, 10, and 11)
) D	A road-served housing and support area, probably for both HEN ROOSTS, is situated approximately 1,500 feet south-southeast of HEN ROOST Antenna South. No major changes have occurred at the installation as determined from photography of except for the appearance in of a motor pool close to the shore, occupied in varying de-
	REFERENCES
D	
	MAPS OR CHARTS SAC. US Air Target Chart, Series 200, Sheet 0245-15AL, 1st ed, Mar 60, scale 1:200,000 (SECRET)

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25X1	2. CIA. PIC/JR-1010/61, Antimissile Complex, Sary Shagan, USSR, (SECRET	25X1C	25X1
25X1	RELATED DOCUMENT NPIC. R-61/63, Antimissile Test Center, Sary Shagan, USSR, Changes and Additions (TOP SECRET		25X1
	REQUIREMENTS		same un
	Army. SRI 282 T-1-63 Air. AF-4-63 CIA. OSI/R-135-63		***
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